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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Apr 08	"Ask CAS" for self-help around the clock
NEWS 3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4	Apr 09	ZDB will be removed from STN
NEWS 5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS 8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS 9	Jun 03	New e-mail delivery for search results now available
NEWS 10	Jun 10	MEDLINE Reload
NEWS 11	Jun 10	PCTFULL has been reloaded
NEWS 12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS 13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS 14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS 15	Jul 30	NETFIRST to be removed from STN
NEWS 16	Aug 08	CANCERLIT reload
NEWS 17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18	Aug 08	NTIS has been reloaded and enhanced
NEWS 19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 23	Sep 03	JAPIO has been reloaded and enhanced

NEWS EXPRESS	February 1 CURRENT WINDOWS VERSION IS V6.0d, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
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NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

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08/03/01

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=> FIL BIOSIS MEDLINE CAPLUS EMBASE SCISEARCH
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=> s shimeji
L1 146 SHIMEJI

=> s l1 and (Antimicrobial or bactericidal or fungicidal or microbicidal or antibacterial or anti-bacterial or antifungal or anti-fungal or bactericide or fungicide)
L2 9 L1 AND (ANTIMICROBIAL OR BACTERICIDAL OR FUNGICIDAL OR MICROBICIDAL OR ANTIBACTERIAL OR ANTI-BACTERIAL OR ANTIFUNGAL OR ANTI-FUNGAL OR BACTERICIDE OR FUNGICIDE)

=> dup rem l2
PROCESSING COMPLETED FOR L2
L3 5 DUP REM L2 (4 DUPLICATES REMOVED)

=> d l3 1-5 py so ti au ab

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2002 ACS
PY 2002
SO Biochemical and Biophysical Research Communications (2002), 290(1), 563-568
CODEN: BBRCA9; ISSN: 0006-291X
TI Isolation of a novel agglutinin with complex carbohydrate binding specificity from fresh fruiting bodies of the edible mushroom Lyophyllum shimeiji
AU Ng, T. B.; Lam, Y. W.
AB A hemagglutinin, with a mol. wt. of 30,000 and expressing hemagglutinating activity which could not be inhibited by simple sugars and glycoproteins, was isolated from fresh fruiting bodies of the edible mushroom Lyophyllum shimeiji. The protein was adsorbed on CM-Sepharose even in 20 mM ammonium acetate (pH 5.5) contg. 1 M NaCl and was desorbed by 20 mM ammonium bicarbonate (pH 9). The hemagglutinating activity was subsequently adsorbed on Mono S in 20 mM ammonium acetate (pH 5.5) and was desorbed by a linear gradient of 0.2-0.5 M NaCl in ammonium acetate buffer. The hemagglutinin exhibited a novel N-terminal sequence not found in any lectin and hemagglutinin reported so far. It was devoid of **antifungal** activity. (c) 2002 Academic Press.

L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2002 ACS
PY 2001
2001
SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2
TI Lyophyllum **shimeji** **antibacterial** protein with pyranose oxidase activity
IN Takakura, Yoshimitsu; Kuwata, Shigeru; Inoue, Yasuhiro
AB A novel **antibacterial** protein whereby the growth of plant pathogenic bacteria, for example, Pyricularia oryzae and Rhizoctonia solani, which are causative of the two major diseases of rice, can be inhibited at a relatively low concn., cDNA, and recombinant expression, are disclosed. A method of isolating the protein from Lyophyllum **shimeji** with ammonium sulfate pptn., and ion-exchange chromatog., are claimed. **Antibacterial** agents contg. the protein are claimed. The **antibacterial** protein isolated from Lyophyllum **shimeji** had a mol. wt. of 70 kDa and about 65 kDa when detd. by the SDS-PAGE method. The protein both isolated and recombinantly expressed in E. coli showed pyranose oxidase activity toward glucose and 1,5-anhydroglucitol.

L3 ANSWER 3 OF 5 SCISEARCH COPYRIGHT 2002 ISI (R)
PY 2001
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (27 JUL 2001) Vol. 285, No. 4, pp. 1071-1075.
Publisher: ACADEMIC PRESS INC, 525 B ST, STE 1900, SAN DIEGO, CA 92101-4495 USA.
ISSN: 0006-291X.
TI Hypsin, a novel thermostable ribosome-inactivating protein with **antifungal** and antiproliferative activities from fruiting bodies of the edible mushroom Hypsizigus marmoreus
AU Lam S K (Reprint); Ng T B
AB A novel ribosome-inactivating protein with a molecular weight of 20 kDa was isolated from fruiting bodies of the mushroom Hypsizigus marmoreus. The isolation procedure entailed ion exchange chromatography on CM-cellulose, affinity chromatography on Affi-gel Blue Gel and ion exchange chromatography on Mono Q. The protein designated hypsin demonstrated an inhibitory action against mycelial growth in various fungal species including Mycosphaerella arachidicola, Physalospora piricola, Fusarium oxysporum, and Botrytis cinerea with an IC50 of 2.7, 2.5, 14.2, and 0.06 muM, respectively. Translation in the rabbit reticulocyte lysate system was inhibited with an IC50 of 7 nM and HIV-1 reverse transcriptase activity was inhibited with an IC50 of 8 muM. Antiproliferative activity against mouse leukemia cells and human leukemia and hepatoma cells was observed. About 60% of the translation-inhibitory activity was retained after heating at 100 degreesC for 10 min. No loss of translation-inhibitory activity occurred after brief treatment with trypsin. (C) 2001 Academic Press.

L3 ANSWER 4 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
PY 2001
SO Biochemical and Biophysical Research Communications, (November 2, 2001) Vol. 288, No. 3, pp. 718-721. print.
ISSN: 0006-291X.
TI Isolation of pleuturegin, a novel ribosome-inactivating protein from fresh sclerotia of the edible mushroom Pleurotus tuber-regium.
AU Wang, H. X.; Ng, T. B. (1)
AB A ribosome-inactivating protein (RIP) designated pleuturegin, which inhibited translation in a cell-free rabbit reticulocyte lysate system with an IC50 of 0.5 nM, was purified from fresh sclerotia of the edible

mushroom Pleurotus tuber-regium. Pleuturegin was distinguished from most plant and previously reported mushroom RIPs in that it was adsorbed on DEAE-cellulose and unadsorbed on SP-Sepharose, although all of them were adsorbed on Affi-gel blue gel. Pleuturegin demonstrated an N-terminal sequence that was different from those of RIPs from Flammulina velutipes (flammulin and velutin), Hypsizygus marmoreus (hypsin), and Lyophyllum **shimeji** (lyophyllin), the only mushroom RIPs with known N-terminal sequences. The molecular mass of pleuturegin was 38 kDa, similar to that of flammulin (40 kDa) but considerably larger than those of velutin (13.8 kDa), hypsin (20 kDa), and lyophyllin (20 kDa). Pleuturegin was devoid of ribonuclease activity.

L3 ANSWER 5 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
PY 2001
SO Archives of Biochemistry and Biophysics, (September 15, 2001) Vol. 393, No. 2, pp. 271-280. print.
ISSN: 0003-9861.
TI First simultaneous isolation of a ribosome inactivating protein and an **antifungal** protein from a mushroom (Lyophyllum **shimeji**) together with evidence for synergism of their **antifungal** effects.
AU Lam, S. K.; Ng, T. B. (1)
AB From the fruiting bodies of the mushroom Lyophyllum **shimeji**, a novel ribosome inactivating protein with a molecular weight of 20 kDa and exhibiting **antifungal** activity against Physalospora piricola (IC50=2.5 muM) and Coprinus comatus was isolated. The protein, designated lyophyllin, was purified by ion exchange chromatography on CM-cellulose, affinity chromatography on Affi-gel Blue Gel, and then ion exchange chromatography on Mono S. Lyophyllin possessed an N-terminal sequence with some similarity to those of plant ribosome-inactivating proteins. It inhibited translation in rabbit reticulocyte lysate with an IC50 of 1 nM, thymidine uptake by murine splenocytes with an IC50 of 1 muM and HIV-1 reverse transcriptase activity with an IC50 of 7.9 nM. Lyophyllin did not manifest ribonuclease or hemagglutinating activity. An **antifungal** protein, designated Lyophyllum **antifungal** protein (LAP), with a molecular weight of 14 kDa, and an N-terminal sequence somewhat analogous to those of angiosperm thaumatin-like proteins and thaumatins and an inactive variant of the ubiquitin-conjugating enzyme, was first isolated from Lyophyllum **shimeji**. LAP was adsorbed on CM-cellulose, Affi-gel blue gel, and Mono S. LAP exerted **antifungal** activity against P. piricola (IC50=70 nM) and Mycosphaerella arachidicola but not against Rhizoctonia solani, Colletotrichum gossypii, and Coprinus comatus. It exerted very low translation inhibitory activity in a rabbit reticulocyte lysate system (IC50=70 muM) and negligible ribonuclease activity toward yeast transfer RNA and hemagglutinating activity toward rabbit erythrocytes. It inhibited HIV-1 reverse transcriptase with an IC50 of about 5.2 nM. A synergism in **antifungal** activities of LAP and lyophyllin against P. piricola was demonstrable.

=> d hist

(FILE 'HOME' ENTERED AT 19:32:41 ON 05 SEP 2002)

FILE 'BIOSIS, MEDLINE, CAPLUS, EMBASE, SCISEARCH' ENTERED AT 19:32:53 ON 05 SEP 2002
L1 146 S SHIMEJI
L2 9 S L1 AND (ANTIMICROBIAL OR BACTERICIDAL OR FUNGICIDAL OR MICROB
L3 5 DUP REM L2 (4 DUPLICATES REMOVED)

=>

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	Search Terms
1	EXTRACT
2	EXTRACTS
3	LYOPHYLLUM
4	SHIMEJI
5	((LYOPHYLLUM ADJ1 SHIMEJI) AND EXTRACT)

	Search Terms
1	ORYZAE
2	SHIMEJI
3	SOLANI
4	SOLANIS
5	(SHIMEJI AND L1)

	Search Terms
1	ANTI-BACTERIAL
2	ANTI-BACTERIALS
3	ANTI-FUNGAL
4	ANTI-FUNGALS
5	ANTIBACTERIAL
6	ANTIBACTERIALS
7	ANTIFUNGAL
8	ANTIFUNGALS
9	ANTIMICROBIAL
10	ANTIMICROBIALS
11	BACTERICIDAL
12	BACTERICIDALS
13	BACTERICIDE
14	BACTERICIDES
15	FUNGICIDAL
16	FUNGICIDALS
17	FUNGICIDE
18	FUNGICIDES
19	MICROBICIDAL
20	MICROBICIDALS
21	SHIMEJI
22	(L13 AND (ANTI-FUNGAL OR MICROBICIDAL OR ANTI-BACTERIAL OR BACTERICIDE OR BACTERICIDAL OR FUNGICIDAL OR ANTIFUNGAL OR FUNGICIDE OR ANTIBACTERIAL OR ANTIMICROBIAL))